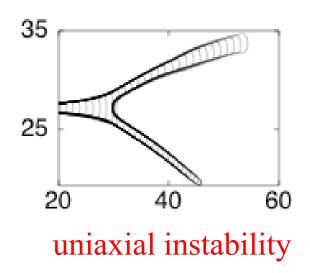
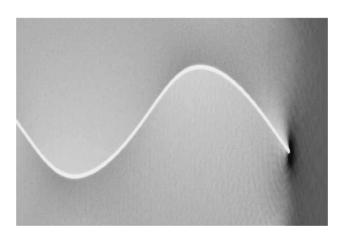
Pattern Formation in Non-equilibrium Systems: Self-organization and Stochasticity; Herbert Levine, UCSD; DMR0101793

Phase field Approach to Fracture with Biaxial strain - first-ever demonstration of a transition to an oscillating crack PRL Sept. 04

- •Experiments revealed that cracks oscillate when subjected to biaxial forcing
- •No previous model had been able to reproduce this finding
- •We have succeeded in a new approach which introduces a new field which tracks where the material breaks reproduces many generic features of dynamic fracture and is computationally tractable





biaxial oscillations